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RICH'S SHORT-HAND

MADE EASY,

By Dr. DODDRIDGE,

NEVER BEFORE PUBLISHED.

[PRICE THREE SHILLINGS.]

N.B. Copies with the Characters made with a Pen, Six Shillings.

RICHARD W. HEND

W. D. BRIDGES

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[Faint text]

*Marion Lewis
from the editor*

A BRIEF AND EASY

S Y S T E M

OF

S H O R T - H A N D :

FIRST INVENTED

By Mr. JEREMIAH RICH,

AND IMPROVED

By Dr. DODDRIDGE;

NOW REDUCED TO SO PLAIN A METHOD THAT ANY ONE MAY LEARN IT
WITHOUT ANY OTHER ASSISTANCE.



The SECOND EDITION, with great Improvements.

London:

PRINTED BY S. COUCHMAN, THROGMORTON-STREET,
FOR EBENEZER PALMER, STATIONER, N^o 85, CHEAPSIDE.

1800.



P R E F A C E.

THE advantages of Short-hand writing are too obvious to require any enlargement. But many who have wished to attain this useful art, have been deterred through an apprehension of the difficulty attending it; and some who have made the attempt, have been soon discouraged from persevering, by the tedious number and complex nature of the rules observable in the systems with which they have begun*.

The great Mr. LOCKE, in his *Treatise of Education*, commends that published by Mr. JER. RICH, as "the best of any he had seen;" but he adds,—
"I think it may well be made much easier and
"shorter." The justice of this remark will be readily allowed by those who are acquainted with

* See WESTON's in particular, price *Two Guineas*.

that system ; but the desired improvement has never been publicly attempted, though *new Short-hands*, and perhaps some better, have since been invented and published.

DR. DODDRIDGE, who had much occasion for Short-hand, and whose pupils were required to transcribe his lectures, undertook that improvement of RICH, which Mr. LOCKE mentions as so desirable; and with so much success, that his students usually learned it the first week of their entering his house, and could generally read his and each other's writing as easily as their own. Most persons, therefore, who were educated in that seminary, have been used to correspond in Short-hand, by which three times as much may be communicated in the same paper, as by the common writing, and the same proportion of time saved. This occasioned the late excellent Mr. JOB ORTON, who carried on a large and useful correspondence with his brethren*, sometimes to say,

* See his *Letters to a young Clergyman*, whom he had taught this Short-hand, published by Mr. STEDMAN.

at the close of his letters, when much indisposed,
 “Blessed be God for Short-hand.”

The DOCTOR'S rules were never printed, but each pupil was accustomed to transcribe them for himself. Many have wished them to be made public for the sake of learning this Short-hand; and several who have learned it already, for teaching it advantageously to others. These are the chief reasons of the present undertaking.

But what is now offered to the public is not a mere copy of Dr. DODDRIDGE'S RULES; which, though sufficient for those who had assistants at hand to explain and direct, are rather too concise for most persons to learn by without such help. The whole therefore is cast into a new form, and a number of such observations made, and such directions given, as, it is presumed, will enable any one, of a tolerable understanding, to make himself a complete master of this useful art; which will be greatly facilitated by the copious EXAMPLES now subjoined, for illustrating the several rules.

It is not pretended that this Short-hand is superior to all others, much less that it is better adapted for taking down any thing after a public speaker. This certainly is not the case. An intelligent person will perceive, that some of the characters are too arbitrary, and others too complex, so that some words might be made as soon by the letters. Thus much, however, must be said in its favour; that when well written, it has a more pleasing appearance than most others; that it is easy to be learned, and as easy to be read, both by the writer himself and by others who use the same. Some of the above defects also are observable in some other Short-hands, which have not these advantages.

In several views this system is capable of further improvement, and those who have occasion for much very swift writing, may improve it themselves. But the present object is chiefly to give those who wished it, *Rich's Short-hand as written by Dr. DODDRIDGE*, and to furnish them with plain instructions for learning it: which some persons may, probably, think

think it worth their while to do, merely for the sake of reading MSS. either of the Doctor's, or of some of his pupils, or those of his successors. The Editor has, however, suggested some hints for writing it with greater advantage and expedition, without making any essential alterations in the system, or any of the characters. He has also pointed out some manifest improprieties in the customary manner of writing, and corrected such errors as had crept into some manuscript copies, in consequence of frequent transcribing. By this undertaking a greater uniformity in writing this Short-hand will be secured, than has hitherto been practised.

All the *Short-hand words* are separately engraved, that the learner may copy them in their proper places himself. In this new edition so much space is left that this book may serve as a copy-book; and it is recommended to every learner to copy every word repeatedly, so as to fill every line; which will tend to fix every character in his memory, as well as improve his writing. If any wish for more room to transcribe

transcribe the characters, they may have the book interleaved.

Those who undertake to teach others, will find it a great convenience to have such a copy-book as this, in which they will have nothing to write but the Short-hand copies.

Such as may have to learn without a teacher, and wish to avoid the trouble of transcribing the engraved copy, may be accommodated with books, in which all the characters are inserted in their proper places with a pen.

*** *A large specimen of beautiful Short-hand manuscript may be seen at the Publisher's.*



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SPECIMEN of Short-hand, *engraved.*

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§ I. *The* LETTERS of the ALPHABET.

a ////////////// i r p p p p p p p p p p p p
 b k o o o o o s s s s s s s s s s s s
 c c c c c c c c l u u u u u t / / / / / / / / / /
 d o o o o o o o m — — — — — u v \ \ \ \ \ \ \ \ \ \ \ \
 e o o o o o o o n — — — — — w L L L L L L L L L L
 f 7 7 7 7 7 7 o / / / / / x o x o x o x o x o x
 g y y y y y y p o o o o o y y y y y y y y y y y
 h h h h h h h q q q q q q z z z z z z z z z z z

Each of these letters stands for a distinct word, which will be found in the section of Arbitrary characters.

But most words in Short-hand are composed of the letters of the alphabet, like other writing; excepting that various methods of abbreviation are used, which will be described hereafter.

Let the learner make himself perfectly acquainted with these letters, so as to read and write them with facility, before he proceeds any further.

§ II. OBSERVATIONS *on the* LETTERS.

1. A and T, which are much alike, are thus distinguished: T is longer than A; and A is begun from the bottom, and joined to the next letter by the top; but T is begun at the top, and joined at the bottom. See *Examples*, § IV. 1—15. 70—74.

2. C is never used as a single letter; but when it is soft, S is put for it, and when it is hard, K. — C made small stands for TH, and large for CH.

3. H after W is for the most part omitted, as in *what*, *where*, *whom*.

4. There being no J in this alphabet, G is used instead of it.

5. O when joined to M, N, and F, in writing quick, is commonly rounded like an L. See § IV. 35, 39.

6. For PL it is customary to use two L's. See § IV. (2) 54. and § VI. 41, 42.

7. Q. stands for QU, as U after Q is always implied.

8. R after another letter (especially at the end of a word) is generally made by a small scratch, either upwards or downwards, as is most convenient. If it be used in the middle

middle of a word, and joined to the next letter, it must be very short and always turned upwards. See § VII.

9. There is but one character for U and V, but the connection will easily point out the difference.—U is sometimes put for W, as in *how, now, law*.

10. X, which resembles K, is to be made larger, and inclining to the right-hand. Some occasionally use the common x.

11. Y is not commonly used at the end of a word, but I is put for it. In some cases, however, Y is used instead of I, because I being only a dot, cannot be joined to other letters; as in *oil, toil, join*. § VI. 28, 52.

12. Z is often used for S, when S has the same sound; as in *exercise*. § VII. 15.

13. No double letters are admitted in Short-hand. K is put for ck, F for ph, W for ugh, &c. the sound only being regarded.

§ III. Of JOINING the LETTERS.

1. The letters in Short-hand are always joined together without any stroke between them; since no stroke can be made but what would resemble some other letter, as well as take up more time.

2. If

2. If two letters are disjoined, it is supposed that a vowel intervenes, which vowel is expressed by the situation of the second letter. See § V.

3. The vowels are sometimes written, and joined like consonants; but the vowel I is excepted, for the reason given § II. 11. and this is never written in the middle of a word.

4. Some few letters, viz. lineal and perpendicular strokes, do not admit of being joined together, so as to be distinguished like the other letters; for instance, M and N, B and H, R and W. In order to distinguish them, they may be made longer than ordinary, or one of them rather thicker than the other, by bearing harder on the pen*. See Examples, § IV. (2) 8, 50, 64.

NOTE, *They who have already learned this Short-band, may observe that the examples from Rich, of what are called Double Consonants (bl, gl, gr, &c.) which are put for words, are here wholly omitted, as having no sort of propriety. They will be found among the Arbitrary characters.*

* It might be a better method in this case, a little to vary the form of one of these letters, as is done with the letter O; e. g. B might be a little inclined like v, and M or N made with a gentle curve.

§ IV. EXAMPLES of JOINING LETTERS.

(1) *A Vowel and a Consonant.*

ab	111111111111	el	e e e e e e e e e e e e
ac	111111111111	em	e e e e e e e e e e e e
ad	111111111111	ep	e e e e e e e e e e e e
af	111111111111	eq	e e e e e e e e e e e e
5 ag	111111111111	er	e e e e e e e e e e e e
ak	111111111111	es	e e e e e e e e e e e e
al	111111111111	et	e e e e e e e e e e e e
am	111111111111	ib	e e e e e e e e e e e e
ap	111111111111	30 im	e e e e e e e e e e e e
10 ar	111111111111	il	e e e e e e e e e e e e
or	111111111111	ob	e e e e e e e e e e e e
as	111111111111	oc	e e e e e e e e e e e e
at	111111111111	od	e e e e e e e e e e e e
av	111111111111	35 of*	e e e e e e e e e e e e
15 aw	111111111111	og	e e e e e e e e e e e e
eb	111111111111	ok	e e e e e e e e e e e e
ec	111111111111	ol	e e e e e e e e e e e e
ed	111111111111	om*	e e e e e e e e e e e e
ef	111111111111	40 op	e e e e e e e e e e e e
20 eg	111111111111	or	e e e e e e e e e e e e
ek	111111111111	or	e e e e e e e e e e e e

os	4 4 4 4 4 4 4 4	uk	u u u u u u u u
ot	4 4 4 4 4 4 4 4	un	u u u u u u u u
45 ov	4 4 4 4 4 4 4 4	up	u u u u u u u u
ox	u u u u u u u u	ur	u u u u u u u u
or	4 4 4 4 4 4 4 4	5 or	u u u u u u u u
uc	2 2 2 2 2 2 2 2	us	u u u u u u u u
ud	3 3 3 3 3 3 3 3	ut	u u u u u u u u
50 ug	4 4 4 4 4 4 4 4	ux	u u u u u u u u

(2) Two Consonants, or a Consonant with a Vowel.

N. B. Many of these occur only in the middle of words. C in all of them stands for TH or CH.

bc	2 2 2 2 2 2 2 2	or	4 4 4 4 4 4 4 4
bd	3 3 3 3 3 3 3 3	db	2 2 2 2 2 2 2 2
bg	4 4 4 4 4 4 4 4	15 dc	2 2 2 2 2 2 2 2
bl	6 6 6 6 6 6 6 6	dd	3 3 3 3 3 3 3 3
5 bp	2 2 2 2 2 2 2 2	de	2 2 2 2 2 2 2 2
br	1 1 1 1 1 1 1 1	df	2 2 2 2 2 2 2 2
bs	1 1 1 1 1 1 1 1	dg	2 2 2 2 2 2 2 2
bw*	1 1 1 1 1 1 1 1	0 dk	2 2 2 2 2 2 2 2
cd	5 5 5 5 5 5 5 5	ddl	2 2 2 2 2 2 2 2
10 ce	6 6 6 6 6 6 6 6	cdn	2 2 2 2 2 2 2 2
cm	1 1 1 1 1 1 1 1	dp	2 2 2 2 2 2 2 2
cr	4 4 4 4 4 4 4 4	dr	2 2 2 2 2 2 2 2

25	ds	??	??	??	??	??	??	??	??	50	mn	—	—	—	—
	dv	22	22	22	22	22	22	22	22		mr	—	—	—	—
	dw	22	22	22	22	22	22	22	22		ms	—	—	—	—
	fl	22	22	22	22	22	22	22	22		pd	o	o	o	o
	fr	22	22	22	22	22	22	22	22		pl	o	o	o	o
30	gd	33	33	33	33	33	33	33	33	55	pr	o	o	o	o
	gl	44	44	44	44	44	44	44	44		ql	a	a	a	a
	gp	55	55	55	55	55	55	55	55		qr	a	a	a	a
	hd	66	66	66	66	66	66	66	66		rc	e	e	e	e
	hl	77	77	77	77	77	77	77	77		rd	b	b	b	b
35	hp	88	88	88	88	88	88	88	88	60	rg	c	c	c	c
	kd	99	99	99	99	99	99	99	99		rl	e	e	e	e
	kl	00	00	00	00	00	00	00	00		rp	f	f	f	f
	kp	11	11	11	11	11	11	11	11		rs	f	f	f	f
	lc	22	22	22	22	22	22	22	22	rw	l	l	l	l	l
40	ld	33	33	33	33	33	33	33	33	65	fe	b	b	b	b
	le	44	44	44	44	44	44	44	44		fh	h	h	h	h
	lg	55	55	55	55	55	55	55	55		fk	h	h	h	h
	lp	66	66	66	66	66	66	66	66		lp	f	f	f	f
	lr	77	77	77	77	77	77	77	77		fq	a	a	a	a
45	ls	88	88	88	88	88	88	88	88	70	te	d	d	d	d
	lt	99	99	99	99	99	99	99	99		th	c	c	c	c
	mc	00	00	00	00	00	00	00	00		tl	b	b	b	b
	md	11	11	11	11	11	11	11	11		tn	l	l	l	l
	me	22	22	22	22	22	22	22	22		tr	l	l	l	l

75 we ㄣㄣㄣㄣㄣㄣㄣ xp ㄣㄣㄣㄣㄣ
 wp ㄣㄣㄣㄣㄣㄣ ye ㄣㄣㄣㄣㄣㄣㄣㄣ
 xc ㄣㄣㄣㄣㄣㄣ 80 yr ㄣㄣㄣㄣㄣㄣㄣㄣ

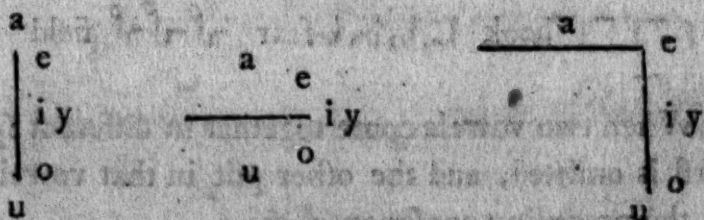
(3) Three Letters joined.

and* ㄣㄣㄣㄣㄣㄣ vnt ㄣㄣㄣㄣㄣ
 ant ㄣㄣㄣㄣㄣㄣ dlt ㄣㄣㄣㄣㄣㄣㄣ
 art ㄣㄣㄣㄣㄣㄣ dvr ㄣㄣㄣㄣㄣㄣㄣ
 afh ㄣㄣㄣㄣㄣㄣ 80 fit ㄣㄣㄣㄣㄣㄣㄣ
 5 end ㄣㄣㄣㄣㄣㄣ 88 fst ㄣㄣㄣㄣㄣㄣㄣㄣ
 elk ㄣㄣㄣㄣㄣㄣ gnt ㄣㄣㄣㄣㄣㄣㄣ
 els ㄣㄣㄣㄣㄣㄣ hlt ㄣㄣㄣㄣㄣㄣㄣ
 ink ㄣㄣㄣㄣㄣㄣ kpt ㄣㄣㄣㄣㄣㄣㄣ
 oil ㄣㄣㄣㄣㄣㄣ 25 lnd ㄣㄣㄣㄣㄣㄣㄣㄣ
 10 old ㄣㄣㄣㄣㄣㄣ 10 lft ㄣㄣㄣㄣㄣㄣㄣㄣ
 opt ㄣㄣㄣㄣㄣㄣ ltr ㄣㄣㄣㄣㄣㄣㄣㄣ
 opr ㄣㄣㄣㄣㄣㄣ mpt ㄣㄣㄣㄣㄣㄣㄣㄣ
 ord ㄣㄣㄣㄣㄣㄣ nrv ㄣㄣㄣㄣㄣㄣㄣㄣ
 ovr ㄣㄣㄣㄣㄣㄣ 30 prt ㄣㄣㄣㄣㄣㄣㄣㄣ
 15 upt ㄣㄣㄣㄣㄣㄣ rnt ㄣㄣㄣㄣㄣㄣㄣㄣ
 urg ㄣㄣㄣㄣㄣㄣ 40 lrm ㄣㄣㄣㄣㄣㄣㄣㄣ

* and is hastily written like ad. — T at the end of words may be made upwards or downwards, as is most convenient.

§ V. Of the Vowels.

The vowels are for the most part omitted, except at the beginning of words, and are expressed by the position of the next consonant with respect to the former.—The places of the several vowels are these :



EXAMPLES.

bad | | | | | mas — — — far | | | | |
 bed | | | | | mel — — — fel | | | | |
 bid | | | | | mil — — — fig | | | | |
 bod | | | | | mor — — — fop | | | | |
 5 bud | | | | | 10 mud — — — 5 ful | | | | |

Remarks and Exceptions.

1. When a word ends with a vowel which is pronounced, a dot is put in that vowel's place ; as,

ba | | | | by | | | my — — do | | | so | | | tru | | |

2. If the word ends in AY, the dot is put in the A's place ; as,

day | | | | may — — — fay | | | | way | | | |

3. But

3. But in other cases the Y is written ; *as*,
 boy 1y1y1y1y toy 1y1y1y1y In joy, the Y is joined. 1y1y1y1y

4. No diphthongs are admitted ; and when any two vowels come together in the same syllable, one of them only is used ; *as*,

seem 1-1-1-1 book 111111 fear 111111 field 111111

5. When two vowels come together in different syllables, the first is omitted, and the other put in that vowel's place about the preceding consonant ; *as*,

lion 111111 dyer 111111 giant 111111
 liar 111111 doer 111111 fuel 111111

6. In words which begin with two vowels, the first is used as if it were a consonant ; *as*,

out, or ought 111111 ounce 111111

7. But A must be excepted, because of its resemblance to T, and therefore in the following words, the consonants must be joined, as if there were no vowel ; *as*,

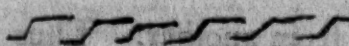

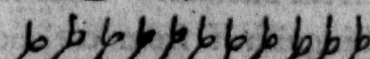
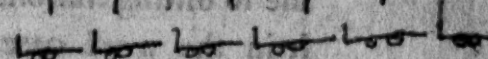
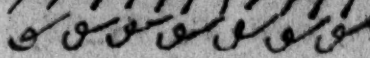
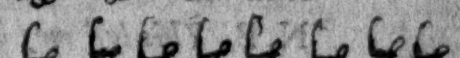

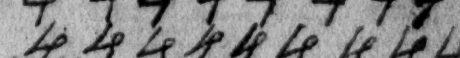
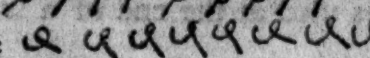
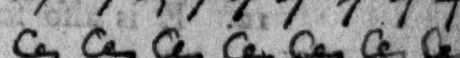
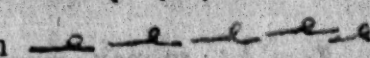

aid (ad) 111111 aim (am) 111111 air (ar) 111111

Unless for distinction sake a person chooses to adopt E or Y instead of I ; *as*,

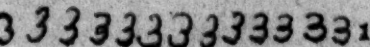

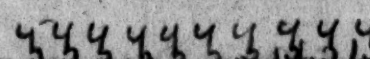
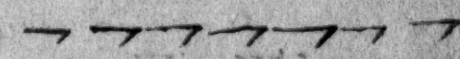
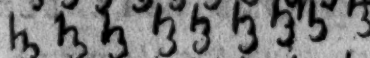
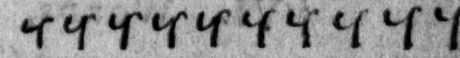
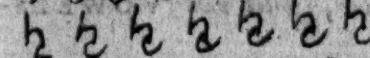
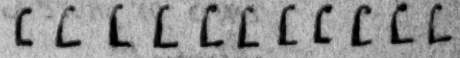
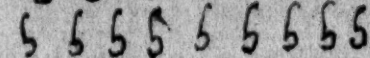
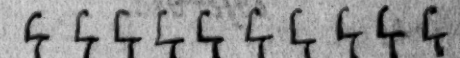
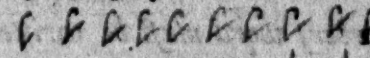
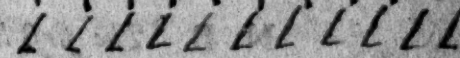
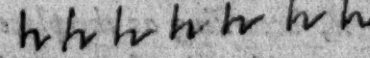
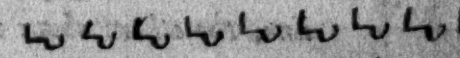

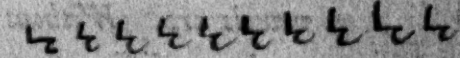
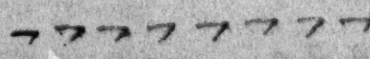
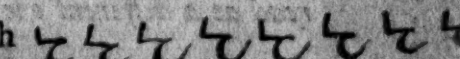
aem 111111 ayl 111111 bayl 111111

8. In many cases it is more convenient to write a vowel than to omit it ; *as in*

name

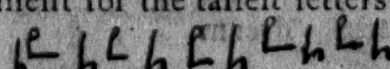
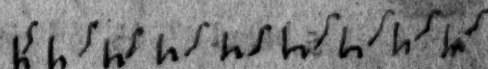
name  mere 
 beat  weep 
 let  sweet 
 yet  treat 
 5 leave  chief 
 mean  noon 

9. In some short words, the vowel is omitted and its place disregarded.

did  10 not 
 good  more 
 had  less 
 hath  fin 
 5 laid  since 
 fir  ten 
 her  well 
 for  with 
 nor  which 

In some longer words also this rule may be observed.

10. The vowel E is the most frequently omitted, and its place is sometimes used for that of A, which is most convenient for the tallest letters; as,

harm  haft 

11. E final, not being founded, should always be omitted; except in a very few cases, where it may be of use

use to distinguish one word from another. Thus some use it in the word ONE, to distinguish it from ON and OWN. N. B. This last may be written, OUN. *h h h h h*

12. E is also sometimes used at the end of a word for Y; as,

any *h h h* honey *h h h* money *h h h*

N. B. There may be as many vowels-places in a word as there are syllables in it. See § VII.

§ VI. WORDS, chiefly of ONE SYLLABLE with TWO or more Consonants, and the VOWELS-Places observed.

N. B. The first letter of every word must be written in the line, the others above or below it, according as the places of the vowels are. Without attending to this, the same word may be read as a different one.

bar, bare	<i>p p p p p p p p</i>	camp	<i>a a a a a</i>
barn	<i>e e e e e e e</i>	cramp	<i>a a a a a</i>
best, beast	<i>i i i i i i i i</i>	cell	<i>u u u u u u u</i>
boast	<i>o o o o o o o</i>	city	<i>y y y y y y y</i>
5 bread	<i>a a a a a a a</i>	dream	<i>e e e e e e e</i>
bright	<i>i i i i i i i i</i>	farm	<i>a a a a a a a</i>
child	<i>u u u u u u u</i>	5 felt	<i>e e e e e e e</i>
crane	<i>a a a a a a a</i>	friend	<i>i i i i i i i</i>

flight

flight	u/ u/ u/ u/ u/ u/	please	ur ur ur ur ur ur ur ur
fruit	y y/ y/ y/ y/ y/	phoenix	x-x-x-x-x-x-x-x
grand	y y y y y y y y	pomp	o o o o o o o o
20 ground	y y y y y y y y	45 rest	pf pf pf pf pf pf pf pf
glimpse	y o r y o r y o r y	rich	pc pc pc pc pc pc pc pc
gulph	y y y y y y y y	stand	f f f f f f f f f f
hand	h h h h h h h h	sink	f f f f f f f f f f
held	h h h h h h h h	fong	f f f f f f f f f f
25 hurt	h h h h h h h h	50 talk	f f f f f f f f f f
jar	y y y y y y y y	toil	y y y y y y y y y y
jest	y y y y y y y y	tooth	c c c c c c c c c c
join	y y y y y y y y	touch	c c c c c c c c c c
just	y y y y y y y y	think	c c c c c c c c c c
30 kind	k k k k k k k k	55 thought	y y y y y y y y y y
kill'd	k k k k k k k k	wend	k k k k k k k k k k
land	u u u u u u u u	vext	v v v v v v v v v v
lame	u u u u u u u u	voice	v v v v v v v v v v
loft	u u u u u u u u	want	w w w w w w w w w w
35 mast	u u u u u u u u	60 wilt	w w w w w w w w w w
mint	u u u u u u u u	would	w w w w w w w w w w
must	u u u u u u u u	white	w w w w w w w w w w
pare	y y y y y y y y	year	y y y y y y y y y y
park	y y y y y y y y	yoke	y y y y y y y y y y
40 pinch	y y y y y y y y	265 young	y y y y y y y y y y
place	y y y y y y y y	youth	y y y y y y y y y y

§ VII. WORDS of TWO or more SYLLABLES.

almost		gentleness	
article		governor	
attribute		harmless	
banish		heathen	
5 brighten		humble	
broken		humility	
certain		idleness	
civility		ignoble	
custom		juniper	
10 cultivate		justice	
danger		kindle	
dungeon		35 kindness	
emptiness		lovely	
entirely		loathsome	
15 exercise		malice	
exert		mighty	
former		40 murmur	
formerly		number	
forerunner		opposite	
20 fortune		oddity	
fortunate		pardon	
fortunately		peevish	
grandeur		45 purpose	
		quarrelsome	

quarrellsome	q q q q	umpire	u p r u p r u
quietly	q q q q	upstart	u p s t a r t
reptile	r p t r p t r p t	vanish	v a n i s h
50 rudeness	r u d e n e s s	vineyard	v i n e y a r d
roughness	r o u g h n e s s	walker	w a l k e r
safety	s a f e t y	winter	w i n t e r
somebody	s o m e b o d y	worship	w o r s h i p
selfishness	s e l f i s h n e s s	worthy	w o r t h y
55 terrible	t e r r i b l e	younger	y o u n g e r
trifle	t r i f l e	youngest	y o u n g e s t
trusty	t r u s t y	zealot	z e a l o t

§ VIII. PREPOSITIONS and TERMINATIONS.

1 ac, act	a c a c	7 coun, count	c o u n c o u n t
2 ation	a t i o n	8 lation	l a t i o n
3 can, con	c a n c o n	9 ment*	m e n t
4 car, cor, cur	c a r c o r c u r	10 mount	m o u n t
5 cation	c a t i o n	11 nation	n a t i o n
6 com, came	c o m c a m e	12 ous, ioust†	o u s i o u s t

* The marks here made, from *Rich*, for *ment* and *mount*, are very commonly reversed; but as *ment* occurs the most frequently, it is proper that it should be made the quickest.

† This character is commonly put for both *use* and *us*; but it is better to distinguish them by writing *u*, *s* γ for *use*.


House is usually written with this mark, thus γ It is also used in *because* γ

13 pra	b b b b b b	21 sub	f f f f f f f f
14 pre, pri	o o o o o o	22 suff	g g g g g g g g
15 pro, pru	q q q q q q q q	23 temp, tempt	t t t t t t t t
16 sent, scient	o o o o o o o o	24 tent	Δ Δ Δ Δ Δ Δ Δ Δ
17 senfe, science*	σ σ σ σ σ σ σ σ	25 trans	□ □ □ □ □ □ □ □
18 serve†	δ δ δ δ δ δ δ δ	26 under	v v v v v v v v
19 five, ceive	l l l l l l l l	27 union	u u u u u u u u
20 fion, tion	s s s s s s s s	28 vert, verfe	v v v v v v v v

These characters may be used promiscuously for *Prepositions* or *Terminations*, or intermediate syllables; and some of them likewise for whole words.—They may also be joined to other arbitrary characters.

Though some of them appear to have no propriety, as they have no tendency to shorten words, yet, since they are so much in use by the writers of this Short-hand, the learner

is

* The same mark is usually made for both this and the former; but it is best to distinguish them, which is easily done by making the first without the dot. Some writers do it by joining NT to 16, and NS to 17, making a dot in both; but this takes more time than if no character were used. Indeed this is a very needless one, as SNT, or SNS, would be as soon written. 

† This mark has been commonly used for both 18 and 19, but the above easy distinction is to be preferred.

is

is advised to make himself perfectly master of them all, whether he use them all himself or not.*

§ IX. EXAMPLES of words COMPOUNDED, wholly or in part, of the PREPOSITIONS and TERMINATIONS.

NOTE : The first figures refer only to the engraving ; the others to the preceding characters.—The *Italic Letters* denote that part of the word which is not expressed by the characters, but made up by the letters of the alphabet.

act ^{ive}	△ △ △ △ △	vo-cation ^s	⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗ ⊗
ac-tion ²⁰	⋈ ⋈ ⋈ ⋈ ⋈	com ⁶ mit	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒
cre-ation ²	⌒ ⌒ ⌒ ⌒ ⌒	com-mand	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒
can ³ not	∧ / ∧ / ∧ / ∧ /	cam-phire	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒
con ³ ceive ¹⁹	∧ ∧ ∧ ∧ ∧	com-mission ²⁰	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒
con ³ tent ²⁴	△ △ △ △ △	coun ⁷ sel	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒
con-tent-ment ⁹	△ _m △ _m △ _m	count-enance	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒
car ⁴ nal	⌒ ⌒ ⌒ ⌒ ⌒	re-lation ³	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒
cor-dial	⌒ ⌒ ⌒ ⌒	so la-ment ⁹	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒
cour-age	⌒ ⁴ ⌒ ⁴ ⌒ ⁴ ⌒ ⁴	la-ment-ation ²	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒
en-cour-age-ment ²	⌒ ^m ⌒ ⁴ ⌒ ⁴	humount ¹⁰ ain	⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒ ⌒

* Some writers of this Short-hand are so rigorously attached to these *marks*, as to use them where they *lengthen* rather than *shorten* the words; *e. g.* in the word FACT, they write F, ACT (N^o 1) and T, whereas the word is more easily written by the letters. So in some other instances.

sur-mont

sur-mount	hm hm hm	40	vi-sion ¹⁸	18 18 18 18 18
nation ¹¹ al	n ¹¹ n ¹¹ n ¹¹ n ¹¹ n ¹¹		adop-tion	18 18 18 18 18
25 pi-ous ¹²	o b o b o b o b		per-ceive ¹⁹	18 18 18 18 18
pre-ci-ous	o b o b o b o b		sub ²¹ due	18 18 18 18 18
cur ⁴ ious ¹³	u b u b u b u b		suff ²² ice	18 18 18 18 18
pra ¹³ ctice	6 6 6 6 6 6 6 6	45	temp ²³ er	18 18 18 18 18
<i>pretend</i> pre ²⁴ serve ²⁰	o b o b o b o b		tempt-ation ²⁴	18 18 18 18 18
30 pro ²⁵ duce	3 3 3 3 3 3 3 3		con ² temp-lation ²⁵	18 18 18 18 18
pro-duc-tion ¹⁹	3 3 3 3 3 3 3 3		con ²⁶ course ²⁶	18 18 18 18 18
pru-dence	3 3 3 3 3 3 3 3		trans ²⁵ mit	18 18 18 18 18
sent ¹⁶ i-ment ⁹	o m o m o m o m	50	trans-lation ²⁷	18 18 18 18 18
suff ²² i-cient ¹⁶	4 0 4 0 4 0 4 0	50	under ²⁶ mine	18 18 18 18 18
35 pre ¹⁴ sence ¹⁷	o r o r o r o r		comm ⁶ union ²⁷	18 18 18 18 18
omni-science ²⁷	v o v o v o v o		virt ²⁸ ue	18 18 18 18 18
serv ¹⁸ ice	6 6 6 6 6 6 6 6		con-verse	18 18 18 18 18
pre ¹⁴ serve	o b o b o b o b	55	virt-u-ous ¹⁸	18 18 18 18 18
pre-serv-ation ²⁸	o b o b o b o b		viti-ous	18 18 18 18 18

§ X. ARBITRARY and SYMBOLICAL CHARACTERS.

The Signification of the LETTERS of the ALPHABET.

a	////////	after	d	o o o o o o	nothing
b	1 1 1 1 1 1 1 1	be, bee	e	o o o o o o	he
c	c c c c c c c c	that	f	7 7 7 7 7 7	of, if
C	large C C C	church	g	4 4 4 4 4 4	god
			h		hospitable,

h	h h h h h	hospitable, lity	r	p p p p p	remnant
i	. . . . .	.I, eye	f	f f f f	small
k	o o o o o	king	t	///	(with a dot) thee /
l	o o o o o	lord	u	\ \ \ \ \	you
m	— — —	man	w	L L L L	when
n	— — —	in, inn	x	o o o o	example
o	L L L L	order	y	Y Y Y Y	Jerusalem
p	o o o	principal, ity	z	Z Z Z Z	is (with dot) his
q	q q q q q	question	&c.	S S S	etc. et cetera

REMARKS.

- a To distinguish *after* from *a*, make it larger, especially when they both come together.
- e *Rich* uses E also for *eminent*, but it seems better to distinguish them. See E in the following list.
- f As *of* and *if* are liable to be confounded in reading, it may be convenient to write the latter *i*, *f*.
- r The above character coincides with *ever* (E 5) and is seldom used. It may be better written as in R 5.

In the following arbitrary characters, those distinguished by *Italic letters* are either seldom used, or not of much value.—Those marked * are chiefly retained from *Rich*, and had been omitted by *Doddridge*.

A above

	A	beneath	l l l l l l l l
above	i i i i i i i i	belong	l l l l l
above all	u u u u u u u u	beginning	e f e f e f e
about	o o o o o o o o	behold	b b b b b b b b
again, ft	y y y y y y y y	believe ||	h h h h h h h h
5 almighty	v v v v v v v v	behave, behalf	d d d d d d d d
altogether	th th th th th th	(see have)	a a a a a a a a
among, ft	Δ Δ Δ Δ Δ Δ	bless, -ed	l l l l l l l l
angel	g g g g g g g g	both	u u u u u u u u
antichrist	t t t t t t t t	both together	h h h h h h h h
10 apostle	a p a p a p a p a p	C	
as (small s)	s s s s s s s s	christ †	† † † † † † † †
appoint*	b b b b b b b b	christ jesus	† † † † † † † †
	B	christian	x x x x x x x x
babylon	e e e e e e e e	cross of christ	† † † † † † † †
baptism	b b b b b b b b	5 circumstance	w w w w w w w w
before †	. . . . . . . .	comfort	w w w w w w w w
behind	. . . . . . . .	company	w w w w w w w w
5 between	. . . . . . . .	companion	w w w w w w w w
below	! ! ! ! ! ! ! !	commandment*	w w w w w w w w

† To distinguish *before* from *by*, make it longer. | . | .

|| This has been commonly made like *lb* in *long-hand*, which is a corruption. At best it is a bad and needless character, as *blw* in Short-hand is easier made.

‡ In *Rich* christ is written X. christian *with* - *subjoined*.

10 congregation

10 congregation	△△△△△	equal	q q q q q q q
covetous†	u u u u u	establiſh	△△△△△△△
covenant*	m m m m m	evangelist	⌘ ⌘ ⌘ ⌘ ⌘ ⌘ ⌘
D		10 eternity*	l l l l l l l l l l
dark, devil	x x x x x	eyes	.....
david	o o o o o	excel	o o o o o o o
deliver	y y y y y	exodus	o o o o o o o
deuteronomy	o o o o o	extraordinary	2 2 2 2 2 2 2
5 difficult	z z z z z	F	
disadvantage	q q q q q	false	o o o o o o o o o
discover	q q q q q	falsehood	o o o o o o o o o
disorder	z z z z z	fellow	z z z z z z z z z
distinguish, ed*	o o o o	fellowship*	q q q q q q q q q
10 dreadful*	o o o o o	first	.....
E		flesh	o o o o o o o o o
eminent	o o o o	follow	z z z z z z z z z
enemy	o o o o	foundation	△△△△△△△△△
enlarge	u u u u u	G	
even	= = = = =	genesis	q q q q q q q q q
5 ever	p p p p p p p p p	give, gift, gave†	g g g g g g g g g
everlasting	f f f f f	glory	q q q q q q q q q
(see last)	.....	glorious	q q q q q q q q q

† A large inverted C or > might be sufficient. > > >

‡ It would be better to write gv, gfi, garv. y y y y y y y

5 gospel *g g g g g* infinitely *l l l l l*
 gospel of christ *h h h h h* inherit, ance* *z z z z z*
 grace *y y y y y* important* *o o o o o*
 gracious *y y y y y* it is, it's *o o o o o*
 great *y y y y y* J
 10 grateful *y y y y y* jehovah *j y y y y*
 gratitude *y y y y y* jesus *i i i i i*
 H *h h h h h* jesus christ *t t t t t*
 have *a a a a a* judge *y y y y y*
 heart *o o o o o* 5 justification* *y y y y y*
 heaven *h h h h h* joyful *y y y y y*
 heaven and earth *h h h h h* K
 5 hopeful *b b b b b* kingdom *k k k k k*
 holiness *h h h h h* — of christ *k k k k k*
 holy ghost *h h h h h* — of god *k k k k k*
 hypocrite *h h h h h* — of heaven *k k k k k*
 hypocrisy *h h h h h* knowledge *n n n n n*
 10 hypocritical *h h h h h* L
 I *i i i i i* large *u u u u u*
 idolatry *t t t t t* last *o o o o o*
 ignorant, ce *n n n n n* leviticus, cal *u u u u u*
 see knowledge *n n n n n* lord jesus *y y y y y*
 in the midst *— — — — —* 5 lord jesus christ *x x x x x*
 infinite *— — — — —* in the lord *o o o o o*
 5 infinity *— — — — —*

M majesty

M

majesty —y—y—y—y
see § xii. 9.
 many ≡≡≡≡≡
 manifest ≡≡≡≡≡
 moreover —y—y—y—y 5
 5 moses m m m m m
more easily written T T T
 multitude† —s—s

N

never T T T T T 10
 nevertheless T T T T
 notwithstanding T T T
 nothing O O O O O O
see the alphabet

O

obedient, ce o o o o
 in order L L L L L
 ordinance L L L L L
 ordinary* L L L L L
 5 original* :: L L L L L
 overcome O O O O O 5
 overplus w w w w w

P

parallel = o = o
 passover T T T T T T
 point* o o o o o o o
 praise b b b b b b b
 prayer b b b b b b b
 pride o o o o o o o
 prisoner o o o o o o o
 proportion :: :: :: :: ::
 providence w w w w w

Q

punishment* m m m m m
 qualification* q q q q q
 query q q q q q
 questionable u u u u u
see question in the alphabet

R

recover P P P P P P P
 religion L L L L L L L
 religious y y y y y y y
 remember R R R R R R R
 remnant† P P P P P
 repent, ance L L L L L L L

† The same mark is used for this as for many, but they are better distinguished.

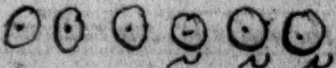

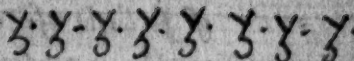


‡ See remark on r, page 19.

resurrection*

resurrection*	R R R R R	those	ε. ε. ε. ε. ε. ε. ε.
return	ρ ρ ρ ρ ρ	thus	ϥ ϥ ϥ ϥ ϥ ϥ ϥ
righteous*	8 8 8 8 8	thou	ς ς ς ς ς ς ς
10 round about	Ⓟ Ⓟ Ⓟ Ⓟ Ⓟ	thousand	ο. ο. ο. ο. ο. ο. ο.
	S	ten thousand	ℒ° 10° ℒ° 10°
sabbath	⸰ ⸰ ⸰ ⸰ ⸰	10 together	# # # # # # #
faint	ς ς ς ς ς ς ς	too as two	2 2 2 2 2 2 2
salvation	5 5 5 5 5 5	triumph	⸰ ⸰ ⸰ ⸰ ⸰
sanctification	Ⓟ Ⓟ Ⓟ Ⓟ Ⓟ	turn*	✓ ✓ ✓ ✓ ✓ ✓ ✓
5 satan	⸰ ⸰ ⸰ ⸰ ⸰ ⸰		U
satisfy*	ϥ. ϥ. ϥ. ϥ. ϥ.	understand	ϥ ϥ ϥ ϥ ϥ ϥ ϥ
satisfaction*	⸰ ⸰ ⸰ ⸰	understanding	ϥ ϥ ϥ ϥ ϥ
scripture	ff ff ff ff ff	understood	ϥ ϥ ϥ ϥ ϥ ϥ
sacred scriptures	ss ss ss ss ss	underneath	ϥ ϥ ϥ ϥ ϥ ϥ
10 shall, shalt	h h h h h h h	upon	⸰ ⸰ ⸰ ⸰ ⸰
soul	Ⓒ Ⓒ Ⓒ Ⓒ Ⓒ Ⓒ Ⓒ		W
spirit	⸰ ⸰ ⸰ ⸰ ⸰ ⸰	wherefore	⸰ ⸰ ⸰ ⸰ ⸰
spiritual	⸰ ⸰ ⸰ ⸰ ⸰	wherein	⸰ ⸰ ⸰ ⸰ ⸰
	T	wicked	W W W W W W W
tabernacle†	Ⓜ Ⓜ Ⓜ Ⓜ Ⓜ	wilderness	Ⓜ Ⓜ Ⓜ Ⓜ Ⓜ
the	:: :: :: :: ::	5 wife	γ γ γ γ γ γ γ
thee	/ / / / / / / /	within	⸰ ⸰ ⸰ ⸰ ⸰
these	ε this ε. ε ε. ε	without	⸰ ⸰ ⸰ ⸰ ⸰

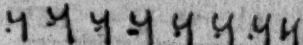
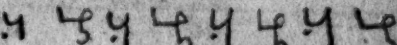
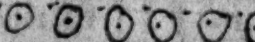
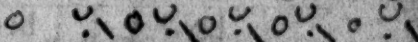
† This is commonly made with two cross strokes in the middle, but one is sufficient.

world

world  Y
 all over the world  yesterday 
 10 nothing in the world  your 

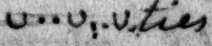
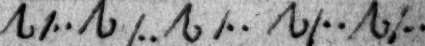
§ XI. CONTRACTIONS.

1. A Dot behind a word makes it plural, when the plural ends in S. It also expresses the genitive case, and the third person singular in verbs; *as*,

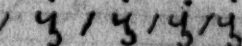
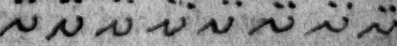
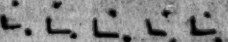
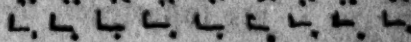
gods  god's word 
 worlds  he loves 

Sometimes it is most convenient to put the dot at the bottom.

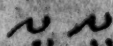

2. When a word ends in Y or IE, the plural may be expressed by placing two I's together, thus (..); *as*,

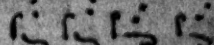
lies  abilities 

3. A Dot over a word signifies *man*, and two Dots (..) *men*; *as*,

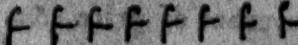
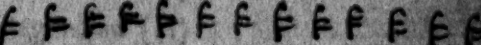
a good man  all men 
 woman  women 

4. Two Dots under a word make *people*; *as*,

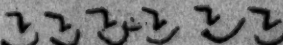
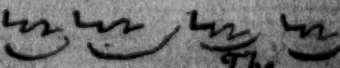
all people  wicked people 

5. (:) over a word is *doctrine*. *Sound doct.* 

6. A short stroke drawn from a letter makes ING: two strokes repeat it; *as*,

sing  singing 

7. A large L under a word makes FULL; *as*,

fearful  wonderful 

The following are among the rules of contraction, but they are of so little use as scarcely to deserve notice, any further than to enable a person to read the writing of those who have adopted them.

(...) over a word is LAW.

(...) after a word is POWER.

The same behind a word, WAY.

8. *The following Short-hand letters placed OVER words, have the significations annexed.*

ad	∩ ∩	advantage	nl	~ ~ ~	natural
bn	L L L	benefit	r	ℓ ℓ ℓ ℓ	righteous
h	h h h	happy	s	s s s s s	satisfy
m	— —	majesty	v	\ \ \ \	vanity
5 n	- -	nature	10 z	Z Z Z Z	sacrifice

These UNDER a word.

k	o o o o	covenant	r	ℓ ℓ ℓ	resurrection
---	---------	----------	---	-------	--------------

But it is inconvenient to place letters over or under words, and is apt to create confusion*. Several of these are superseded by the *arbitrary characters*, and some others of them might be used as such.

N. B. *In Rich's original work, some of the above, and other marks of contraction, are used to greater advantage than they are here, as they express more than a single word; v. g.*

(.) over world, is, the men of the world.





















(...) over God, — the law of God.

(n) under grace, — the covenant of grace, &c.

* Mr. Gurney therefore very properly discards this method.

§ XII. Various Rules of ABBREVIATION.

1. A vowel at the beginning of a word may be omitted, when the sound of that vowel is made in pronouncing the next consonant ; as,

art         empty            

write *he stand: &c. &c.* In reading what is thus written, the Grammar will be easily corrected.

8. The repetition of a single word may be expressed by as many commas after it ; as, *holy holy holy: holy,*—When several words in a sentence are to be repeated, and other words intervene, an upright stroke may be placed between each of the words where the repetition is to be made ; as, *Phil. iv. 8. Whatsoever things are true | honest | just | pure | lovely, &c.**

9. The common abbreviations in other writing may be adopted in Short-hand ; as ABP for archbishop, MS for manuscript, &c. The common FIGURES also are to be preferred.

10. A principal rule in order to save time, is, to take off the pen as seldom as possible, for the sake of which some other rules may be occasionally dispensed with, and a number of dots about words omitted.

It is of particular importance to form a habit of beginning and joining every letter and character in the readiest manner, so as to avoid going backwards and forwards, and that the pen may move in the smallest possible space. So much depends upon this, and many writers are here so defective, that it may not be amiss to subjoin a few directions and examples.

The *a* in the mark for *have* and *ation* may be most expeditiously made like the greek *alpha* *α*, and generally may be most easily joined to other letters and marks. *α α α α*

* Gurney's Short-hand.

The

The preposition *trans* and the letters or terminations with which it is often joined, may be formed more simply and with fewer removes of the pen than they frequently are : for instance, in the word *transmit*, the bottom line should be prolonged so as to form the *m* at one stroke of the pen.

The word *translation* may be written without taking off the pen above once, instead of twice or thrice, as it usually is. First make a Short-hand FL then a BM and the figure is made.

To give only another example, in the joining of the letter *κ* with the termination (8) *tion* ; instead of stopping the pen at the end of the *κ* and beginning a formal figure of 8, draw down the *κ* a little below the line, and make a curve through the middle of the letter, and you form the character in half the time : thus

These remarks the attentive learner will easily apply to various other cases himself.

§ XIII. GENERAL DIRECTIONS TO LEARNERS OF SHORT-HAND.

1. Be careful to form all the letters true, and in their just proportion : especially to make the upright strokes perpendicular.
2. Avoid all kinds of flourishes, which cause confusion, and let no words be written so long as to interfere with any in the line above or below.
3. In contracting words take care that they become not obscure ; and observe a due distinction in the manner of writing

writing words which are similar. Those who have occasion to read to others what they write, should particularly attend to these hints.

4. They would do well also, to write rather large, especially at first; to leave proper spaces between the lines; as also between the words, which may serve instead of points. The chief point used is a long upright stroke at the end of a sentence. /

5. Take care to write well before you attempt to write fast; in order to which repeatedly transcribe the examples of words here given; and in those made up of letters, carefully observe each letter, and form it as if it stood by itself; for a word can never be well written, unless each letter is so.

6. Habituate yourself to read what you have written; and if you have opportunity, procure a manuscript from some good writer of this Short-hand, and transcribe it with care.

7. Writing *swiftly* must be gradually acquired by use. It is of considerable advantage in writing after any speaker, to hold the pen almost perpendicularly, and to have pens formed for this purpose. The smaller the writing the more expeditious.

* * For the days of the week, some make use of the astronomical signs; but this is not to be recommended, as they are not sooner written than the letters, nor so easily retained.

Sunday ☉ Tuesday ♂ Thursday ♃ Saturday ♄
Monday ☿ Wednesday ♀ Friday ♁

SUPPLEMENT.

As there is a deficiency of good SYMBOLICAL CHARACTERS, for long words, which frequently occur, some elegant ones may be supplied from the *Greek Alphabet*, v. g.

$\alpha \omega$ alpha and omega	Π pharisaical
β benevolent, ce	π particularly
ϵ beneficial	ϖ in a particular manner
Γ genealogy	P retribution
γ geographical	Σ systematical
δ disinterested	τ tyrannical
ξ zealously	T hypothesis, etical
Θ theological	Φ philosophical
ϑ enthusiasm, astical	ϕ phænomenon
λ lamentable, y	χ crucifixion
μ meritorious	ψ psalmist, ody
ξ excentric, ity	Ω omnipotent



1752 1753 1754
 1755 1756 1757

The Lord's Prayer

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

4 7 4 4 0 0 3 0 0 0 0
 14 1 4 1 2 1 2 1 1 1

0 h₂ h₂ 1' 1' - 1' = 4
~ 1' 2' v c y q ~ 1'
1' 1' 2' y f 1' v f n /
h₂ h₂ v c y /

